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The present situation of the Vespidae-fauna (Hymenoptera, Aculeata) of Turkey

Erol YILDIRIM & Josef GUSENLEITNER

A b s t r a c t : This study is based upon material of the family Vespidae collected from different localities of Turkey between 1999 and 2014, and the other related studies on the Vespidae in Turkey were reviewed. *Tropidodynerus flavus* (LEPELETIER, 1841) is new records for Turkish fauna. Including the new taxa determined in this study a total of 301 species and subspecies from 53 genera were recorded from Turkey up to now. In addition, new localities have been found for some species and subspecies which have already been reported in Turkey.

K e y w o r d s : Hymenoptera, Vespidae, fauna, new record, Turkey.

Introduction

A total of 298 species and subspecies in 53 genera of the subfamilies Vespinae, Polistinae, Eumeninae, and Masarinae have been recorded from Turkey. Of them, 65 species and subspecies, comprising 22% of Turkish vespids, are endemic. Furthermore three genera, 71 species and 16 subspecies of Vespidae have been described from Turkey (YILDIRIM 2012; YILDIRIM & GUSENLEITNER 2012).

Separately, GUSENLEITNER (2012), *Celonites tenebricosus* from Hakkari, and YILDIRIM (2014) *Onychopterocheilus sarikamisensis* (YILDIRIM, 2014) from Kars (Sarıkamış) described in Turkey.

In this study, the present situation of Vespidae species and subspecies of Turkey were evaluated. Including the new taxa determined in this study a total of 301 species and subspecies belonged to 53 genera from family Vespidae were recorded from Turkey up to now.

The aim of this paper is to bring new collect and biological data on Vespidae in Turkey.

Materials and Methods

The material of the Vespidae was collected from different localities of Turkey in 1999-2014. Provinces of the collected specimens are given in alphabetical order in the following list. The material is deposited in the Entomology Museum, Erzurum, Turkey (EMET).

Results

Subfamily *Vespiinae*

Vespa crabro LINNAEUS, 1758

Material examined: Bartın: Yalıboyu 25 m, 06.IX.2011, 4♀♀; Erzurum: Oltu, Ayvalı, 850 m, 20.IX.2013, ♀, Tortum, Pehlivanlı, 23.VII.2011, ♂, Uzundere, Çamlıyamaç, 1140 m, 26.IX.2013, ♀; Sakarya: Adliye, 19.IX.2011, ♀; Tunceli: Ovacık, Aşağıtorunoba, 1475 m, 28.VII.2012, ♀.

Vespa orientalis LINNÉ, 1771

Material examined: Adana: Balcalı, 31.VII.2011, ♀; Adıyaman: Kâhta, Elbeyi, 650 m, 08.IX.2011, 3♀♀; Balıkesir: Çobançeşmesi, 200 m, 16.VII.2011, ♀; İzmir: Bornova, 45 m, 11.VIII.2011, ♀; Manisa: Kurkağaç, Öküzpınarı, 190 m, 30.IX.2011, ♀; Mersin: Erdemli, Esenpınar, 850 m, 16.IX.2011, ♀; Tunceli: Velkan, 1160 m, 09.VIII.2012, ♀, Çemişgezek, Payamdüzü, 1238 m, 03.VIII.2012, 3♀♀, 10.VIII.2012, 4♀♀, Pertek, Doluküp, 06.VIII.2012, 2♀♀, Yeniköy, 1388 m, 30.VIII.2012, ♀, Mazgirt, Geyiksuyu, 1351 m, 10.VII.2012, ♀, Kalaycı, 1200 m, 03.VI.2012, ♀, Zaphan, 1196 m, 19.VIII.2012, ♀.

Vespa (Allovespa) rufa (LINNAEUS, 1758)

Material examined: Erzurum: Tortum, Esendurak, 1450 m, 22.VII.2004, ♀, Tunceli: Ovacık, Gözeler, 1352 m, 28.VII.2012, ♀, Pülümür, 1783 m, 09.VIII.2012, 2♀♀.

Vespa (Paravespa) germanica (FABRICIUS, 1793)

Material examined: Erzurum: Oltu, Sarısaz, 1421 m, 30.VIII.2012, ♀, Olur, Ormanagzı, 935 m, 05.VIII.2012, ♀; Tunceli: 914 m, 10.VIII.2012, ♀, Çemçeri, 1494 m, 23.VII.2012, ♀, Velkan, 1160 m, 09.VIII.2012, 5♀♀, Mazgirt, Kalaycı, 1200 m, 15.VIII.2011, 2♀♀, 20.VIII.2011, 4, ♀♀, Meşelik, 1208 m, 02.VIII.2012, 4, ♀♀, Zaphan, 1196 m, 19.VIII.2012, ♀, Nazımiye, Kutudere, 1330 m, 09.VIII.2012, ♀, Ovacık, Ovacık Valley, 1476 m, 05.VIII.2012, ♀, Gözeler, 03.VIII.2012, ♀, Pülümür, Dereboyu, 1709 m, 08.VIII.2012, ♀, Geyiksuyu, 1351 m, 10.VII.2012, 2♀♀, Kangallı, 1444 m, 08.VIII.2012, ♀, Sağlamtaş, 1757 m, 05.VIII.2012, ♀, 1701 m, 13.VIII.2011, ♀, Pertek, Doluküp, 06.VIII.2012, 6♀♀.

Vespa (Paravespa) vulgaris (LINNAEUS, 1758)

Material examined: Erzurum: İspir, Madenköprübaşı, 1300 m, 22.VII.2003, 2♀♀, Oltu, Sarısaz, 1421 m, 30.VIII.2012, ♀.

Dolichovespula (Metavespula) sylvestris (SCOPOLI, 1763)

Material examined: Erzurum: Çat, Bayındır, 1978 m, 18.VI.2012, ♀, Narman, Çimenli, 2311 m, 30.VII.2011, 3♀♀; Tunceli: Hozat, Buzlupınar, 1798 m, 02.VIII.2012, ♀, Geyikli, 1351 m, 10.VII.2012, 3♀♀, Nazımiye, Doğantaş, 09.VIII.2012, 1635 m, 2♂♂, Yiğitler, 1111 m, 09.VIII.2012, ♂, Ovacık, Aşağıtorunoba, 1475 m, 28.VII.2012, ♂, Gözeler, 28.VII.2012, 2♀♀, Ziyaret, 1318 m, 04.VIII.2012, 2♀♀, Pülümür, Boğalı, 1411 m, 03.VIII.2011, 2♀♀, Dağyolu, 1783 m, 09.VIII.2012, 11♀♀, Dereboyu, 08.VIII.2012, 1709 m, ♀, Dereköy, 1437 m, 09.VIII.2011, ♀, Doğanpınar, 1483 m, 05.VIII.2011, ♀, Doğantaş, 1635 m, 09.VIII.2012, ♀, Hiver, 1951 m, 07.VIII.2012, 3♀♀, Kabadalı, 1577 m, 08.VIII.2012, ♀, Közlüce, 1734 m, 07.VIII.2011, ♀, Sağlamtaş, 1757 m, 05.VIII.2012, ♀, Ünveren, 1778 m, 07.VIII.2012, ♀, ♂.

***Dolichovespula (Pseudovespula) omissa* (BISCHOFF, 1931)**

Material examined: Tunceli: Pülümür, Dağyolu, 1783 m, 09.VIII.2012, ♂.

Subfamily Polistinae***Polistes (Polistes) associus* KOHL, 1898**

Material examined: Erzurum: Olur, Boğazgören, 1155 m, 23.VII.2011, ♀, Ormanağzı, 951 m, 06.VII.2012, 2♀♀; Tunceli: Velkan, 09.VIII.2012, 1160 m, 2♀♀, Pülümür, Dereboyu, 08.VIII.2012, 1709 m, ♀, Kuzulca, 06.VIII.2011, 1351 m, ♀.

***Polistes (Polistes) biglumis* (LINNAEUS, 1758)**

Material examined: Bayburt: Kopdağı, 2400 m, 05.IX.2012, 4♀♀; Erzurum: Palandöken, 2155 m, 22.VII.2012, ♀.

***Polistes (Polistes) gallicus* (LINNAEUS, 1767)**

Material examined: Bayburt: Kopdağı, 2400 m, 05.IX.2012, ♀ 3♂♂; Erzurum: Aziziye, Özbek, 2100 m, 05.VIII.2011, ♀, Köprüköy, Eyüpler, 1745 m, 06.VI.2012, ♀, Örentaş, 1916 m, 30.VII.2011, ♂, Oltu, Sarısaz, 1421 m, 30.VIII.2012, ♀, Olur, Köprübaşı, 994 m, 19.VII.2012, 2♀♀, Ormanağzı, 960 m, 05.VIII.2012, ♀, Yolgözler, 1108 m, 05.VIII.2012, ♀, Pazaryolu, 1430 m, 04.VIII.2012, ♀, Kumaşkaya, 13.VII.2011, 1800 m, ♀, Yiğitbaşı, 1334 m, 04.VIII.2012, 2♀♀, Tortum, Bağbaşı, 1191 m, 04.VIII.2012, ♀, Uzundere, Dikyar, 1133 m, 14.VIII.2012, ♂; Tunceli: Çemçeri, 23.VII.2012, 1494 m, ♀, Velkan, 09.VIII.2012, 1160 m, 6♀♀, Çemişgezek, Payamdüzü, 03.VIII.2012, 1238 m, ♀, Hozat, Buzlupınar, 02.VIII.2012, 1798 m, ♀, Mazgirt, Kalaycı, 02.VI.2012, 1200 m, ♀, 28.VII.2012, 1200 m, 2♀♀, Zaphan, 19.VIII.2012, 1196 m, ♀, Nazımiye, Kutudere, 09.VIII.2012, 1330 m, 2♀♀, Yiğitler, 1111 m, 09.VIII.2012, 2♀♀, Ovacık, 1271 m, 28.VII.2012, 3♀♀, Gözeler, 1352 m, 28.VII.2012, 3♀♀, Pertek, Balpayam, 1297 m, 30.VIII.2012, 4♀♀, Kartal Çeşmesi, 1393 m, 30.VIII.2012, ♀, Mercimek, 30.VIII.2012, 1797 m, 3♂♂, Pınarlar, 1207 m, 30.VIII.2012, ♂, Tozkoparan, 1378 m, 30.VIII.2012, ♂, Yeniköy, 1388 m, 30.VIII.2012, ♀, ♂, Pülümür, Dağyolu, 1783 m, 09.VIII.2012, ♀, Dereboyu, 1709 m, 08.VIII.2012, 2♀♀, Sağlamtaş, 1757 m, 05.VIII.2012, ♀.

***Polistes (Polistes) dominula* (CHRIST, 1791)**

Material examined: Bayburt: Kopdağı, 2400 m, 05.IX.2012, 7♂♂; Erzurum: Horasan, Muratbağı, 1860 m, 24.VIII.2011, ♂, Tortum, Arılı, 1650 m, 30.VIII.2012, 2♂♂, Uzundere, Dikyar, 1133 m, 14.VIII.2012, ♂; Tunceli: Velkan, 1660 m, 09.VIII.2012, ♀, 2♂♂, Çemişgezek, Payamdüzü, 1238 m, 03.VIII.2012, ♀, Hozat, Buzlupınar, 1798 m, 02.VIII.2012, 1798 m, Ovacık, Aşşağıtorunoba, 1475 m, 28.VII.2012, 2♀♀, Gözeler, 1352 m, 03.VIII.2012, ♀, ♂, Mazgirt, Meşelik, 1208 m, 02.VIII.2012, ♀, Zaphan, 19.VIII.2012, 1196 m, 2♀♀, 4♂♂, Nazımiye, Dereova, 1871 m, 09.VIII.2012, ♀, Doğantaş, 1605 m, 09.VIII.2012, ♀, Yiğitler, 1111 m, 09.VIII.2012, ♀, ♂, Pülümür, Balpayam, 1954 m, 19.VIII.2011, ♂, Dağyolu, 1783 m, 09.VIII.2012, 2♂♂, Dereboyu, 1709 m, 08.VIII.2012, ♂, Hiver, 1951 m, 07.VIII.2012, ♂, Sağlamtaş, 1757 m, 05.VIII.2012, ♀, ♂, Ünveren, 1738 m, 07.VIII.2012, ♂.

***Polistes (Polistes) nimpha* (CHRIST, 1791)**

Material examined: Bayburt: Kopdağı, 2400 m, 05.IX.2012, ♀; Erzurum: Oltu, Yeşilbağlar, 1562 m, 06.VII.2012, ♀, Olur, Ormanağzı, 951 m, 06.VII.2012, ♀, Şenkaya, Akşar, 1275 m, 20.VIII.2011, ♀, Tortum, Arılı, 1650 m, 30.VIII.2012, 2♀♀, Bağbaşı, 1191 m, 14.VIII.2012, ♀; Tunceli: Velkan, 1160 m, 09.VIII.2012, ♀, Mazgirt, Zaphan, 1196 m, 19.VIII.2012, ♀, Ovacık, Köşeler, 1350 m, 05.VIII.2012, 2♀♀, Ziyaret, 1318 m, 04.VIII.2012, ♀.

Pertek, Doluküp, 1126 m, 06.VIII.2012, 2♀♀, Pülümür, Dağyolu, 1783 m, 09.VIII.2012, ♀, Sağlantaş, 1757 m, 05.VIII.2012, ♀, Ünveren, 1778 m, 07.VIII.2012, 3♀♀.

***Polistes (Sulcopolistes) atrimandibularis* ZIMMERMANN, 1930**

M a t e r i a l e x a m i n e d : Tunceli: Mazgirt, Kalaycı, 1200 m, 02.VI.2012, ♂, Pülümür, Sarigül, 1900 m, 08.VII.2011, ♂.

***Polistes (Sulcopolistes) sulcifer* ZIMMERMANN, 1930**

M a t e r i a l e x a m i n e d : Bayburt: Kopdağı, 2400 m, 05.IX.2012, ♂; Tunceli: Nazımiye, Doğantaş, 1635 m, 09.VIII.2012, ♂.

Subfamily E u m e n i n a e

***Psiloglossa anatolica* GIORDANI SOIKA, 1979**

M a t e r i a l e x a m i n e d : Erzurum: Tortum, Derekapı, 1300 m, 13.VII.2011, ♂.

***Discoelius dufourii* LEPELETIER, 1841**

M a t e r i a l e x a m i n e d : Artvin: Yusufeli, Altıparmak, 25.VII.2014, ♀

***Tropidodynerus flavus* (LEPELETIER, 1841)**

Material examined: Erzurum: Oltu, Çamlıbel, 21.VII.2014, 1600 m, ♀, ♂.

New for the Turkish fauna.

***Odynerus (Odynerus) melanocephalus armeniacus* (MORAWITZ, 1885)**

M a t e r i a l e x a m i n e d : Erzurum: Atatürk University field, 1800 m, 20.VI.2012, ♂, Yeşilyayla, 1950 m, 01.VII.2010, ♀, Aşkale, 1600 m, 18.VI.2012, ♀, ♂, Hatuncuk, 1869 m, 05.VII.2012, ♀, Kandilli, 1710 m, 21.VI.2011, ♀, Küçükgeçit, 1665 m, 08.VI.2012, ♀, Aziziye, Başçakmak, 1863 m, 24.VI.2012, ♂, Gelinkaya, 1796 m, 24.VI.2012, ♀, Rizekent, 2088 m, 24.VI.2012, ♂, Toprakkale, 2151 m, 26.VI.2011, ♀, ♂, Çat, Çukurçayır, 2183 m, 18.VII.2012, ♀, Parmaksız, 2103 m, 18.VI.2012, ♂, Yukarıçat, 1904 m, 18.VI.2012, ♂, Karayazı, Çatören, 2313 m, 17.VI.2012, ♀, Yukarısöylemez, 1905 m, 17.VII.2012, ♂, Köprüköy, Ataköy, 17.VI.2012, 1788 m, ♀, Pazaryolu, Kumaşkaya, 1800 m, 13.VI.2011, 1800 m, ♀, 2♂♂, Şenkaya, Akşar, 1275 m, 05.VI.2011, 2♂♂, Tekman, Karsu, 1987 m, 17.VI.2012, ♀.

***Odynerus (Odynerus) spinipes* (LINNAEUS, 1758)**

M a t e r i a l e x a m i n e d : Erzurum: Şenkaya, Akşar, 1275 m, 10.VIII.2011, ♀.

***Odynerus (Spinicoxa) albopictus calcaratus* (MORAWITZ, 1885)**

M a t e r i a l e x a m i n e d : Tunceli: Mazgirt, Kalaycı, 1200 m, 02.VI.2012, ♂.

***Gymnomerus laevipes* (SHUCKARD, 1837)**

Material examined: Erzurum: 1850 m, 09.VII.2012, ♀, Aşkale, 1661 m, 19.VI.2012, ♂, Oltu, İğdeli, 1660 m, 30.VI.2012, 2 ♀ ♀, Şenkaya, Akşar, 1275 m, 10.VIII.2012, ♀, Hoş, 1193 m, 10.VI.2012, ♀, Tortum, 1533 m, 07.VI.2012, ♂, Çamlıca, 1634 m, 16.VII.2012, ♀, Uzundere, Çağlayanlı, 970 m, 27.V.2011, 2 ♂ ♂, 1010 m, 07.VI.2012, ♀.

***Cephalochilus draco* GIORDANI SOIKA, 1970**

Material examined: Tunceli: Bögürtlen, 1040 m, 24.VII.2014, ♂, Çiçekli, 1104 m, 25.VII.2014, ♂, Nazımiye, Yığıtlar, 1111 m, 09.VIII.2012, ♂, Ovacık, Gözeler, 1412 m, 20.VII.2014, ♂.

***Onychopterocheilus atrohirtus* (MORAWITZ, 1885)**

Material examined: Erzurum: Narman, Kireçlidağı, 20.VII.2014, 1900 m, ♀.

***Onychopterocheilus hellenicus syriacus* (BLÜTHGEN, 1952)**

Material examined: Tunceli: Pülümür, Hiver, 1915 m, 07.VIII.2012, ♀.

***Onychopterocheilus pallasii* (KLUG, 1805)**

Material examined: Tunceli: Ovacık, Mercan, 20.VII.2014, ♀.

***Alastor (Alastor) mocsaryi* (ANDRÉ, 1884)**

Material examined: Erzurum: İspir, Madenköprübaşı, 1135 m, 24.VII.2011, ♀, Olur, Aşağıkaracasu, 1304 m, 19.VII.2012, ♀, Coşkunlar, 1054 m, 10.VI.2012, ♀, Kaban, 1215 m, 19.VII.2012, 2 ♀ ♀, Taşlıköy, 885 m, 06.VII.2012, 3 ♀ ♀, Pazaryolu, 1495 m, 24.VII.2011, ♀, Şenkaya, Akşar, 1275 m, 20.VIII.2011, ♀, ♂, Tortum, Derekapı, 1300 m, 15.VI.2010, ♂, Uzundere, Çamlıyamaç, 1282 m, 14.VIII.2012, 2 ♀ ♀, Gölbaşı, 14.VIII.2012, 1150 m, 2 ♀ ♀, Kirazlı, 1203 m, 09.VII.2011, ♀; Tunceli: Mazgirt, Meşelik, 900 m, 28.VIII.2011, ♂, Pülümür, Armağan, 1689 m, 12.VIII.2011, ♀, Sağlamtaş, 1757 m, 05.VIII.2012, ♀.

***Alastor (Alastor) seidenstueckeri* BLÜTHGEN, 1956**

Material examined: Tunceli: Pülümür, Zağga, 1172 m, 19.VII.2014, ♀.

***Alastor (Megalastor) mediomaculatus* GIORDANI SOIKA, 1952**

Material examined: Erzurum: Şenkaya, Akşar, 1275 m, 05.VI.2011, ♂; Tunceli: Ovacık, Akyayık, 1315 m, 20.VII.2014, ♀.

***Microdynerus (Alastorynerus) microdynerus* (DALLA TORRE, 1889)**

Material examined: Erzurum: İspir, Çayırözü, 1947 m, 04.VIII.2012, ♀; Kars: Sarıkamış, Karakurt, 1500 m, 20.VI.2003, 3 ♀ ♀.

***Microdynerus (Pseudomicrodynerus) parvulus* (HERRICH-SCHAEFFER, 1838)**

Material examined: Erzurum: Narman, Yanıktaş, 1612 m, 30.VI.2012, ♂, Şenkaya, Akşar, 1275 m, 05.VI.2011, 2♂♂, Tortum, Yukarısivri, 1962 m, 06.VII.2012, ♂; Tunceli: Demirkapı, 1494 m, 23.VII.2014, ♀.

***Leptochilus (Lionotulus) alpestris* (SAUSSURE, 1855)**

Material examined: Erzurum: Pazaryolu, Kumaşkaya, 1800 m, 20.VII.2011, ♂.

***Leptochilus (Lionotulus) osmanicus* GUSENLEITNER, 1988**

Material examined: Tunceli: Ovacık, Gözeler, 1412 m, 20.VII.2014, ♀.

***Leptochilus (Neoleptochilus) regulus* (SAUSSURE, 1855)**

Material examined: Antalya: Arapsuyu, 30.VI. 2002, 5♂♂.

***Cyrtolabulus mutinensis* GUSENLEITNER, 2006**

Material examined: Tunceli: Mazgirt, Kalaycı, 1200 m, 20.VIII.2011, 2♀♀.

***Tachyancistrocerus rhodensis* (SAUSSURE, 1855)**

Material examined: Sanlıurfa: Bozova, Yaylak, 30.VIII.2012, ♂; Tunceli: Mazgirt, Kalaycı, 1200 m, 20.VIII.2011, ♀, Ovacık, Gözeler, 1352 m, 28.VII.2012, ♀, Pertek, Balpayam, 30.VIII.2012, ♀, Doluküp, 1126 m, 06.VIII.2012, ♀.

***Eustenancistrocerus (Eustenancistrocerus) israelensis* GIORDANI SOIKA, 1952**

Material examined: Tunceli: Nazımiye, Doğantaş, 1635 m, 09.VIII.2012, ♀, Yiğitler, 1111 m, 09.VIII.2012, ♀, Havuzlu, 1392 m, 20.VII.2014, ♀, Mollaaliler, 1445 m, 20.VII.2014, ♀, Pülümür, Sağlamtaş, 1757 m, 05.VIII.2012, ♀.

***Eustenancistrocerus (Eustenancistrocerus) jerichoensis iconius* BLÜTHGEN, 1957**

Material examined: Tunceli: Ovacık, Akyayık, 1315 m, 20.VII.2014, ♀, 7♂♂, Gözeler, 1352 m, 28.VII.2012, ♀, 1412, 20.VII.2014, 2♀♀, 8♂♂, Havuzlu, 1392 m, 20.VII.2014, ♀, 3♂♂, Mercan, 1486 m, 20.VII.2014, ♀, Mollaaliler, 1445 m, 20.VII.2014, ♀, 2♂♂, Pülümür, Dereboyu, 1709 m, 08.VIII.2012, ♀.

***Eustenancistrocerus (Parastenancistrocerus) amadanensis* (SAUSSURE, 1855)**

Material examined: Tunceli: Nazımiye, Kutudere, 1330 m, 09.VIII.2012, 2♀♀, Ovacık, 08.VII.2012, 1271 m, ♀, Köşeler, 1350 m, 05.VIII.2012, ♀, Pertek, Mercimek, 1437 m, 30.VIII.2012, 2♂♂, Pınarlar, 1207 m, 30.VIII.2012, ♀, Pülümür, Boğalı, 1411 m, 30.VIII.2011, ♀.

***Jucancistrocerus jucundus* (MOCSÁRY, 1883)**

Material examined: Erzurum: Horasan, Muratbağı, 1860 m, 24.VIII.2011, ♀, Olur, Olurdere, 1124 m, 19.VII.2012, 2♀♀, Pasinler, Sansarderesi, 1877 m, 17.VII.2011, ♂, Pazaryolu, Yiğitbaşı, 1334 m, 04.VIII.2012, ♀, Şenkaya, Çatalelma, 1583 m, 14.VII.2012, 2♂♂, Hoş, 1193 m, 31.VII.2011, ♂, İçmesu, 1656 m, 14.VII.2012, ♂, Tortum, Çamlıca, 1674 m, 16.VII.2012, ♀, 3♂♂, Derekapı, 1300 m, 15.VI.2010, 950 m, ♀; Mersin: Erdemli, Üçtepe 120 m, 12.IX.2012, ♂; Tunceli: Nazımiye, Kutudere, 1330 m, 09.VIII.2012, ♂, Doğantaş, 1635 m, 09.VIII.2012, ♀.

***Stenodynerus aequisculptus* (KOSTYLEV, 1940)**

Material examined: Erzurum: Tortum, Derekapı, 1300 m, 15.VI.2010, ♂.

***Stenodynerus bluethgeni* VAN DER VECHT, 1971**

Material examined: Erzurum: Şenkaya, Akşar, 1275 m, 20.VIII.2011, ♀.

***Stenodynerus chevrieranus* (SAUSSURE, 1855)**

Material examined: Erzurum: Uzundere, Gölbaşı, 1260 m, 07.VIII.2011, ♀; Tunceli: Pülümür, Yarbaşı, 1328 m, 04.VIII.2011, ♀.

***Stenodynerus claviger* GUSENLEITNER, 1981**

Material examined: Erzurum: Pazaryolu, Kumaşkaya, 1800 m, 20.VII.2011, ♀.

***Stenodynerus simulatus* GUSENLEITNER, 1981**

Material examined: Erzurum: Olur, Olurdere, 1124 m, 19.VII.2012, 3♂♂, Tortum, Dikmen, 1304 m, 14.VIII.2012, ♀; Tunceli: Mazgirt, Kalaycı, 1200 m, 20.VIII.2012, 2♀♀, Ovacık, Köşeler, 1350 m, 05.VIII.2012, ♀, Pertek, Pınarlar, 1207, 30.VIII.2012, ♀.

***Stenodynerus steckianus* (SCHULTHESS, 1897)**

Material examined: Bayburt: Kopdağı, 2400 m, 05.IX.2012, ♂.

***Antepipona albosignata* GUSENLEITNER, 1986**

Material examined: Erzurum: Olur, Yukarıkaracasu, 1521 m, 19.VII.2011, ♀; Tunceli: Mazgirt, Kalaycı, 1200 m, 20.VIII.2012, ♂, Ovacık, Adaköy, 1280m, 20.VII.2014, ♀.

***Antepipona deflenda* (S.S. SAUNDERS, 1853)**

Material examined: Erzurum: Aşkale, Çayköy, 1580 m, 02.VIII.2012, ♀, Horasan, Yeşildere, 1684 m, 28.VIII.2011, ♂, Narman, 1565 m, 21.VII.2010, ♂; Tunceli: Mazgirt, Kalaycı, 1200 m, 28.VII.2012, 2♀♀, 20.VIII.2012, 2♀♀, Zaphan, 1196 m, 19.VIII.2012, ♀.

***Antepipona dentella* GUSENLEITNER, 1991**

Material examined: Tunceli: Pülümür, Akdik, 1608 m, 18.V.2011, ♀.

***Antepipona insana* (GIORDANI SOIKA, 1943)**

Material examined: Erzurum: Özbek, 2000 m, 05.VIII.2011, ♂, Atatürk University field, 1850 m, 22.VII.2011, ♂.

***Antepipona laevigata* (BLÜTHGEN, 1951)**

Material examined: Erzurum: Köprüköy, Ataköy, 1788 m, 17.VI.2012, ♂; Tunceli: Pülümür, Kangallı, 1444 m, 08.VIII.2012, ♂.

***Brachydynerus kUSDasi* GUSENLEITNER, 1967**

Material examined: Tunceli: Ovacık, Havuzlu, 1392m, 20.VII.2014, ♀.

***Antepipona orbitalis ballioni* (MORAWITZ, 1867)**

Material examined: Erzurum: Dadaşköy, 1806 m, 04.VIII.2011, ♀, Kombina, 1900 m, 22.VIII.2011, ♀, Aziziye, Özbek, 2100 m, 05.VIII.2011, 2♀ ♀.

***Parodontodynerus ephippium* (KLUG, 1817)**

Material examined: Bayburt: Kopdağı, 2400 m, 05.IX.2012, ♀; Erzurum: Aşkale, Yaylayolu, 2108 m, 05.VII.2012, ♀, Pasinler, Acı, 1905 m, 22.VII.2012, ♀, Pazaryolu, Kumaşkaya, 1800 m, 20.VII.2011, ♀.

***Allodynerus delphinalis* (GIRAUD, 1866)**

Material examined: Tunceli: Mazgirt, Kalaycı, 1200 m, 20.VIII.2011, ♀.

***Pseudepipona herrichii* (SAUSSURE, 1856)**

Material examined: Erzurum: Oltu, 1455 m, 08.VI.2012, ♂.

***Euodynerus (Euodynerus) curictensis* BLÜTHGEN, 1940**

Material examined: Tunceli: Nazımiye, Doğantaş, 1635 m, 09.VIII.2012, 2♀ ♀.

***Euodynerus (Euodynerus) dantici* (ROSSI, 1790)**

Material examined: Tunceli: Ovacık, Çiçekli, 1014 m, 25.VII.2014, ♂, Mercan, 1486 m, 20.VII.2014, ♂, Mollaaliler, 1445 m, 20.VII.2014, ♂, Pertek, Pınarlar, 1207 m, 30.VIII.2012, ♂, Pülümür, Kabadal, 1577 m, 08.VIII.2012, ♂.

***Euodynerus (Euodynerus) disconotatus* (LICHTENSTEIN, 1884)**

Material examined: Antalya: Arapsuyu, 04.VIII. 2002, 2♀ ♀, Finike, 05.IX.2013, ♀; Konya: Güneysınır, Gürağaç, 08.VIII.2002, ♀; Tunceli: Mazgirt, Zaphan, 1196 m, 19.VIII.2012, ♂, Nazımiye, Dereova, 1871 m, 09.VIII.2012, ♂, Ovacık, Çiçekli, 1014 m, 25.VII.2014, ♂, Mercan, 1486 m, 20.VII.2014, ♂, Ziyaret, 1318 m, 04.VIII.2012, ♀, Pülümür, Dereboyu, 1709 m, 08.VIII.2012, ♀.

***Euodynerus (Euodynerus) hellenicus* BLÜTHGEN, 1942**

Material examined: Erzurum: Şenkaya, Penek, 1145 m, 31.VII.2011, ♀.

***Euodynerus (Euodynerus) semisaecularis* (DALLA TORRE, 1889)**

Material examined: Tunceli: Ovacık, Gözeler, 1352 m, 28.VII.2012, ♂, Pülümür, Kabadal, 1577 m, 08.VIII.2012, ♂.

***Euodynerus (Euodynerus) velutinus* BLÜTHGEN, 1951**

Material examined: Erzurum: Çat, Kom, 2206 m, 05.VII.2012, ♀.

***Euodynerus (Pareuodynerus) notatus* (JURINE, 1807)**

Material examined: Erzurum: Oltu, Subatık, 1400 m, 11.VII.1999, 5♀, Pazaryolu, Kumaşkaya, 1800 m, 20.VII.2011, ♀; Tunceli: Mazgirt, Kalaycı, 1200 m, 06.VI.2012, ♀.

***Rhynchium oculatum hebraeum* GIORDANI SOIKA, 1952**

Material examined: Antalya: Arapsuyu, 24.IX.2004, 2♀, ♂, Serik, Kocayatak, 30.VI.2012, ♂, Nebiler, 30 m, 28.IX.2012, 2♀, ♂; Mersin: Erdemli, Üçtepe, 120 m, 12.IX.2012, ♂; Samsun: Bafra, 18.IX.2003, ♂.

***Ancistrocerus auctus* (FABRICIUS, 1793)**

Material examined: Bayburt: Kopdağı, 2400 m, 05.IX.2012, 2♂♂; Erzurum: Kombina, 1900 m, 22.VIII.2011, ♂, Horasan, Dönertaşı, 1907 m, 13.VIII.2012, ♂, Oltu, Tekeli, 1320 m, 10.VI.2012, ♀, Tortum, 1450 m, Arılı, 05.VIII.2010, ♂.

***Ancistrocerus nigricornis* (CURTIS, 1826)**

Material examined: Tunceli: Mazgirt, Kalaycı, 1200 m, 22.VIII.2011, ♀.

***Ancistrocerus oviventris caucasicus* GUSENLEITNER, 1994**

Material examined: Erzurum: Şenkaya, Penek, 1145 m, 31.VII.2011, ♂.

***Ancistrocerus parietum* (LINNAEUS, 1758)**

Material examined: Antalya: Arapsuyu, 30.VI.2002, ♂; Artvin: Yusufeli, Altınparmak, 27.VII.2005, 2♂♂; Rize: Çamlıhemşin, Çat, 1054 m, 20.VI.2014, 4♂♂.

***Ancistrocerus scoticus* (CURTIS, 1826)**

Material examined: Antalya: Altınyaka, 355 m, 28.V.2009, ♂; Bayburt: Kopdağı, 2400 m, 05.IX.2012, ♂; Kars: Kağızman, 31.VII.2005, ♂.

***Symmorphus crassicornis* (PANZER, 1798)**

Material examined: Erzurum: Horasan, Muratbağı, 1860 m, 24.VIII.2011, ♀.

***Symmorphus gracilis* (BRULLÉ, 1832)**

Material examined: Erzurum: Pazaryolu, Kumaşkaya, 1800 m, 23.VI.2011, ♀.

***Eumenes coronatus detonsus* BLÜTHGEN, 1943**

Material examined: Erzurum: Uzundere, Dikyar, 1133 m, 14.VIII.2012, ♂; Tunceli: Mazgirt, Meşelik, 1208 m, 02.VIII.2012, ♂, Zaphan, 1196 m, 19.VIII.2012, ♂, Nazımiye, Doğantaş, 1635 m, 09.VIII.2012, ♂, Ovacık Valley, 1476 m, 05.VIII.2012, ♀, Pertek, Kartal Çeşmesi, 1393 m, 30.VIII.2012, ♂.

***Eumenes dubius* SAUSSURE, 1852**

Material examined: Antalya: Arapsuyu, 24.IX.2004, 4♂♂; Erzurum: Kombina, 1900 m, 22.VIII.2011, ♀, İspir, Kirazlı, 1206 m, 20.VII.2012, ♂, Olur, Ormanağzı, 955 m, 30.VI.2011, ♀, Pasinler, 1843 m, Kevenlik, 22.VI.2012, ♂, Şenkaya, Hoş, 1193 m, 31.VII.2011, 2♂♂, Tortum, Arılı, 1650 m, 30.VIII.2012, 2♂♂; Tunceli: Hozat, Buzlupınar, 1798 m, 02.VIII.2012, ♂, Mazgirt, Kalaycı, 1200 m, 20.VIII.2011, ♂, Zaphan, 1196 m, 19.VIII.2012, ♀, 3♂♂, Nazımiye, Dereova, 1871 m, 09.VIII.2012, 2♀♀, Ovacık, Aşağıtorunoba, 1475 m, 28.VII.2012, ♂, Gözeler, 1352 m, 28.VII.2012, 2♀♀, Ziyaret, 1318 m, 04.VIII.2012, ♀, Pertek, Kartal Çeşmesi, 30.VIII.2012, 2♂♂, Mercimek, 1437 m, 30.VIII.2012, 2♀♀, Pınarlar, 1207 m, 30.VIII.2012, ♀, Pertek, Balpayam, 1297 m, 30.VIII.2012, ♂, Doluküp, 1126 m, 06.VIII.2012, ♂, Pülümür, Armağan, 1689 m, 12.VIII.2011, 2♂♂, Sağlamtaş, 1757 m, 05.VIII.2012, ♀.

***Eumenes mediterraneus* KRIECHBAUMER, 1879**

Material examined: Erzurum: Kombina, 1900 m, 22.VIII.20211, ♂, Çat, Yarmak, 1876 m, 11.VIII.2012, ♂; İğdir: Bayraktutan, 17.VIII.2005, ♂; Kars: Sankamış, Karakurt, 1500 m, 09.VII.2003, 3♂♂; Tunceli: Velkan, 1160 m, 09.VIII.2012, ♂, Hozat, Buzlupınar, 1798 m, 02.VIII.2012, 2♂♂, Mazgirt, Kalaycı, 1200 m, 20.VIII.2011, ♂, Zaphan, 1196 m, 19.VIII.2012, 3♂♂, Nazımiye, 1635 m, 09.VIII.2012, 2♂♂, Ovacık, Köşeler, 1350 m, 05.VIII.2012, ♂, Ziyaret, 04.VIII.2012, 1318 m, ♂, Pertek, Balpayam, 1297 m, 30.VIII.2012, 2♂♂, Doluküp, 06.VIII.2012, 1126 m, 2♂♂, Mercimek, 1437 m, 30.VIII.2012, ♂, Yeniköy, 1388 m, 30.VIII.2012, ♂, Pülümür, Armağan, 1200 m, 20.VIII.2011, 2♂♂, Başkalecik, 1568 m, 02.VIII.2011, ♂.

***Eumenes pedunculatus* (PANZER, 1799)**

Material examined: Bayburt: Kopdağı, 2400 m, 05.IX.2012, ♂; Erzurum: Karagöbek, 1961 m, 16.VII.2012, ♀, Oltu, 28.VII.2003, ♂, Olur, Köprübaşı, 994 m, 19.VII.2012, ♂, Şenkaya, Penek, 1145 m, 31.VII.2011, ♂, Taht, 1238 m, 31.VII.2011, ♂, Tortum, Arılı, 30.VIII.2012, 1650 m, 3♂♂; Tunceli: Velkan, 1160 m, 09.VIII.2012, ♂.

***Eumenes pomiformis* (FABRICIUS, 1781)**

Material examined: Erzurum: Yeşilyayla, 1950 m, 01.VII.2010, ♂, Çat, Yarmak, 1876 m, 11.VIII.2012, ♂, Yukarıçat, 2162 m, 23.VII.2011, ♂, Olur, Taşlıköy, 860 m, 10.VII.2011, ♀, Şenkaya, Taht, 1283 m, 31.VII.2011, 2♀♀, Tortum, Arılı, 1650 m, 30.VIII.2012, 2♀♀, Derekapı, 1300 m, 15.VI.2010, ♂, 05.VIII.2010, 3♂♂; Kars: Kağızman, Kuloğlu, 01.VIII.2002, ♀, Sankamış, Karakurt, 1500 m, 20.VI.2003, ♂.

***Eumenes subpomiformis* BLÜTHGEN, 1938**

Material examined: Antalya: Arapsuyu, 15.X.2003, 2♂♂; Bayburt: Kopdağı, 2400 m, 05.IX.2012, ♂; Ordu: Perşembe, 23.VI.2014, 2♂♂; Tunceli: Mazgirt, Zaphan, 1196 m, 19.VIII.2012, ♂, Ovacık, Köşeler, 1350 m, 05.VIII.2012, ♂.

***Delta unguiculatum* (VILLERS, 1789)**

Material examined: Antalya: Aksu, 15 m, 01.VII.2012, ♀; Artvin: Deriner Barajı, 9.VIII.2006, 2♂♂, Yusufeli, 22.VII.2003, ♂; İsparta: Ayazmana, 1100 m, 06.VIII.2011, ♀; Manisa: Salihli, 74 m, 04.VII.2012, ♀; Tunceli: Pertek, Pınarlar, 1207 m, 30.VIII.2012, ♀.

***Katamenes flavigularis* (BLÜTHGEN, 1951)**

M a t e r i a l e x a m i n e d : Antalya: Karain, 02.VI.2009, 2 ♀ ♀; Tunceli: Pülümür, Armağan, 1689 m, 12.VIII.2011, ♀.

***Katamenes sichelii tauriae* (GIORDANI SOIKA, 1960)**

M a t e r i a l e x a m i n e d : Antalya: Finike, Dağbağ, 380 m, 15.IX.2013, ♂.

Subfamily M a s a r i n a e

***Celonites abbreviatus* (VILLERS, 1789)**

M a t e r i a l e x a m i n e d : Artvin: Yusufeli, Morkaya, 700 m, 15.VI.2010, 2 ♀ ♀; Tunceli: Böğürtlen, 1040 m, 24.VII.2014, ♀.

***Celonites cyprius smyrnensis* RICHARDS, 1962**

M a t e r i a l e x a m i n e d : Erzurum: Şenkaya, Akşar, 1275 m, 20.VIII.2011, ♀; Tunceli: Mazgirt, Meşelik, 1208 m, 02.VIII.2012, 2 ♀ ♀.

***Ceramius caucasicus* ANDRÉ, 1884**

M a t e r i a l e x a m i n e d : Erzurum: Abdurrahmangazi, 2170 m, 22.VII.2012, ♀, Palandöken, Yağmurcuk, 1987 m, 09.VIII.2011, ♂, Şenkaya, Akşar, 1275 m, 10.VIII.2011, ♀.

***Jugurtia escalerae* MEADE-WALDO, 1910**

M a t e r i a l e x a m i n e d : Tunceli: Pülümür, Kabadalı, 1577 m, 08.VIII.2012, 2 ♀ ♀.

***Jugurtia eurycara* KOSTYLEV, 1935**

M a t e r i a l e x a m i n e d : Tunceli: Ovacık, Gözeler, 1421 m, 20.VII.2014, 4 ♀ ♀.

Zusammenfassung

Vorliegende Arbeit basiert auf Material, das zwischen 1999 und 2014 an verschiedenen Orten der Türkei aufgesammelt wurde, zudem wurden auch die publizierten Arbeiten ausgewertet. *Tropidodynerus flavus* (LEPELETIER, 1841) konnte erstmals für die Türkei nachgewiesen werden. Somit sind aktuell aus der Türkei 301 Arten aus 53 Gattungen bekannt.

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Authors' addresses:

Prof. Dr. Erol YILDIRIM
Atatürk University, Faculty of Agriculture,
Department of Plant Protection
TR-25240, Erzurum, Turkey
E-mail: yildirimerol@hotmail.com

Dr. Josef GUSENLEITNER
Pfitznerstraße 31
A-4020 Linz, Austria
E-mail: j.gusenleitner@utanet.at